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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,170	11/13/2006	Frank B. Stamps	0837RF-H532-US	5513

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EXAMINER

BURCH, MELODY M

ART UNIT

PAPER NUMBER

3657

MAIL DATE

DELIVERY MODE

05/27/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/568,170

Applicant(s)

STAMPS ET AL.

Examiner

Melody M. Burch

Art Unit

3657

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-20 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I in the reply filed on 3/16/09 is acknowledged.
2. Claim 20 has been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 3/16/09.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 2774553 to Jensen in view of 5535861 to Young.

Re: claims 1, 3, 4, 6, 7, 11, 13, 14, and 16. Jensen shows in figure 5 a damper having an adjustable spring rate comprising a piston 108 having an axis, an outer surface and opposing ends, at least one seal shown surrounding the piston in sealing contact with the outer surface of the piston, the at least one seal being coaxial with the piston and limiting movement of the piston to a path along the axis of the piston, the at least one seal also defining fluid chambers 110, 112 adjacent the ends of the piston, a primary passage 152,164 communicating the fluid chambers, and a selectively

switchable valve for controlling a flow of fluid from one of the chambers to another for the chambers through the primary passage, and wherein when the flow of fluid through the primary passage is permitted by the energization of element 156 to open primary passage 152,164 to the same extent that passage 87 is opened in the instant invention, movement of the piston is resisted by a first spring rate due to a shear force required to cause shear deflection of the at least one seal, and when the flow of fluid through the primary passage is restricted by de-energization of element 156 to close the primary passage 152,158, movement of the piston is resisted by a second spring rate due to a fluid force required to cause bulging deflection of the at least one seal to the same extent as Applicant's invention (paragraph [0027] of the instant invention describes bulging from fluid being restricted to flowing through secondary passage 89 instead of through primary passage 87. In the case of Jensen fluid is restricted to flowing through a secondary passage 146 instead of through 152, 164 when the primary passage is closed).

Jensen is silent with regards to the at least one seal specifically being elastomeric or being a plurality of seals.

Young teaches in figure 1 the use of a damping having an adjustable spring rate comprising elastomeric seals 22.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the at least one seal of Jensen to have included elastomeric seals, as taught by Young, in order to provide adequate balance of resilience and strength and a desired level of damping depending on application.

Re: claims 2 and 12. Jensen, as modified, teaches in Young the use of elastomeric seals being formed of layers of an elastomeric material 23 and a rigid non elastomeric material 26.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the elastomeric seals of Jensen, as modified, to have included layers of an elastomeric material and a rigid non elastomeric material, as taught by Young, in order to provide a means of having seals with adequate stiffness for improved product reliability.

Re: claims 5 and 15. In an alternate interpretation of Jensen, as modified, the primary passage communicating the fluid chambers may be the passage surrounding element 150. A selectively switchable valve 150 (selectively switchable in the sense that it is switchable to an open position only at a certain pressure threshold, as broadly recited) for controlling flow of a fluid from one of the chambers to another of the chambers through the primary passage. The primary passage surrounding element 150 is located within the piston as shown.

Re: claims 8, 9, 17, and 18. Jensen, as modified, teaches in figure 5 of Jensen the use of a bypass passage shown surrounding element 148 for limiting pressure imbalances.

Re: claims 10 and 19. Jensen, as modified, teaches in figure 5 of Jensen a bypass valve 148 being located within the bypass passage.

Response to Arguments

5. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent 4947700 to Kern et al. teaches the use of a torsion damper with multiple rate spring means.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 571-272-7114. The examiner can normally be reached on Monday-Friday (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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mmb
May 25, 2009

/Melody M. Burch/
Primary Examiner, Art Unit 3657